

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 37   | @ad<="20040401" and "first well" and "second well" and "third well" and "pad" and "latch-up"          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 09:38 |
| L2    | 72   | @ad<="20040401" and "first well" and "second well" and "third well" and voltage and "latch-up"        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 09:41 |
| L3    | 4    | @ad<="20040401" and "first well" and "second well" and "third well" and "BJT" and "latch-up"          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 09:39 |
| L4    | 12   | @ad<="20040401" and "first well" and "second well" and "third well" and "bias voltage" and "latch-up" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 10:12 |
| L5    | 428  | @ad<="20040401" and (257/343).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 10:10 |
| L6    | 115  | @ad<="20040401" and (257/110).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 10:18 |
| L7    | 521  | @ad<="20040401" and (257/173).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 10:11 |
| L8    | 289  | @ad<="20040401" and (257/361).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 10:11 |
| L9    | 106  | @ad<="20040401" and (257/141).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 10:11 |
| L10   | 83   | @ad<="20040401" and (257/423).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/21 10:11 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| L11 | 21  | @ad<="20040401" and "lateral" with "SCR" and "bias voltage" and "latch-up"          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 11:07 |
| L12 | 30  | @ad<="20040401" and (257/120).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 10:18 |
| L13 | 168 | @ad<="20040401" and (257/121-123).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 10:18 |
| L14 | 114 | @ad<="20040401" and (257/124-125).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 10:18 |
| L15 | 20  | @ad<="20040401" and "ker" and "SCR" and "bias voltage" and "latch-up"               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 11:12 |
| L16 | 19  | @ad<="20040401" and "ker" and "SCR" and "bias voltage" and "latch-up" and "trigger" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 11:12 |
| L17 | 63  | @ad<="20040401" and "ker" and "SCR" and "low-voltage" and "trigger"                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 11:13 |
| L20 | 23  | @ad<="20040401" and "ker" and "SCR" same "low-voltage" same "trigger"               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 11:13 |
| L21 | 19  | ("4595941"   "5182220").PN. OR ("5541801").URPN.                                    | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/09/21 11:30 |
| S1  | 2   | "20040217427"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:19 |
| S2  | 907 | @ad<="20040401" and (257/370).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 10:10 |

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|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S3  | 693  | @ad<="20040401" and (257/378).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/10 10:22 |
| S4  | 272  | @ad<="20040401" and (257/361).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/10 10:22 |
| S5  | 122  | @ad<="20040401" and (257/497).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/10 10:22 |
| S8  | 1    | @ad<="20040401" and 'first well'<br>and 'second well' and 'third well'<br>and 'bias voltage' and 'pad' and<br>'BJT' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:00 |
| S9  | 5    | @ad<="20040401" and 'first well'<br>and 'second well' and 'third well'<br>and 'voltage' and 'pad' and 'BJT'         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 11:57 |
| S10 | 13   | @ad<="20040401" and 'first well'<br>and 'second well' and 'third well'<br>and 'voltage' and 'BJT'                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 11:57 |
| S11 | 69   | @ad<="20040401" and 'first well'<br>and 'second well' and 'third well'<br>and 'voltage' and 'latch-up'              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 14:07 |
| S12 | 1325 | @ad<="20040401" and<br>(257/371-373).ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/10 10:22 |
| S13 | 35   | @ad<="20040401" and 'first well'<br>and 'second well' and 'third well'<br>and 'pad' and 'latch-up'                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/21 09:38 |
| S14 | 1    | "5894145".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:14 |
| S15 | 1    | "5786617".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:16 |
| S16 | 1    | "5637900".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:17 |
| S17 | 1    | "5329143".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:19 |

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|     |    |                                      |   |    |    |                  |
|-----|----|--------------------------------------|---|----|----|------------------|
| S18 | 42 | 'Ker Ming-Dou' and 'latch-up'        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 07:53 |
| S19 | 1  | "5400202".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:32 |
| S20 | 1  | 'Ahn Soon-Hong' and 'BJT'            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 12:41 |
| S21 | 2  | 'Ahn Soon-Hong'                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 12:42 |
| S22 | 26 | 'Lee Jung-Hwa'                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 12:42 |
| S23 | 75 | @ad<="20040401" and 'ESD' and 'IGBT' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 13:48 |
| S24 | 1  | "6507471".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:55 |
| S25 | 1  | "6469560".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:55 |
| S26 | 1  | "6437419".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:56 |
| S27 | 1  | "6414532".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:56 |
| S28 | 1  | "6320232".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:56 |
| S29 | 1  | "6002155".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:57 |
| S30 | 1  | "5955763".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:58 |
| S31 | 1  | "5932914".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:58 |
| S32 | 1  | "5880501".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:58 |
| S33 | 1  | "6225649".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:59 |
| S34 | 1  | "6194764".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 12:59 |
| S35 | 1  | "6097235".PN.                        | USPAT;<br>USOCR   | OR | ON | 2005/06/14 13:00 |

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|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S36 | 1  | "5330922".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/14 13:20 |
| S37 | 1  | "5132235".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/14 13:21 |
| S38 | 1  | "5102811".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/14 13:23 |
| S39 | 1  | "6365940".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/14 13:33 |
| S40 | 1  | "5959332".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/14 13:33 |
| S41 | 36 | 'Gossner Harald'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 13:48 |
| S42 | 12 | @ad<="20040401" and 'Nwell' and 'Pwell' and 'Pwell' and 'deep well'                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 14:05 |
| S43 | 12 | @ad<="20040401" and 'Nwell' and 'Pwell' and 'Nwell' and 'deep well'                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 14:05 |
| S44 | 16 | @ad<="20040401" and 'first well' and 'second well' and 'third well' and 'deep well' and 'latch-up'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 14:14 |
| S45 | 5  | @ad<="20040401" and 'first well' and 'second well' with 'insulating' and 'third well' and 'latch up' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 14:15 |
| S46 | 1  | @ad<="20040401" and 'first well' and 'second well' same 'sub well' and 'third well' and 'BJT'        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:01 |
| S47 | 1  | @ad<="20040401" and 'first well' and 'second well' and 'sub well' and 'third well' and 'BJT'         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:01 |
| S48 | 2  | @ad<="20040401" and 'first well' and 'second well' and 'sub well' and 'third well'                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:31 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S49 | 330 | @ad<="20040401" and 'NPN bipolar transistor' and 'latch-up'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:32 |
| S50 | 132 | @ad<="20040401" and 'NPN bipolar transistor' and 'pad' and 'latch-up'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:39 |
| S51 | 330 | @ad<="20040401" and 'CMOS' and 'bipolar transistor' and 'pad' and 'latch-up'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:39 |
| S52 | 138 | @ad<="20040401" and 'CMOS' and 'ESD' and 'bipolar transistor' and 'pad' and 'latch-up'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:47 |
| S53 | 149 | @ad<="20040401" and 'CMOS' and 'ESD' and 'bipolar transistor' and 'pad' and 'latch up'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:59 |
| S54 | 20  | @ad<="20040401" and 'CMOS' and 'ESD' and 'bipolar transistor' and 'pad' and 'latch up' and 'well' with ('isolation' or 'insulating') with 'region' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/14 15:59 |
| S55 | 9   | 'samsung' and 'BJT' and 'latch-up'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:19 |
| S56 | 805 | @ad<="20040401" and 'NPN' with 'bipolar junction transistor'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:22 |
| S57 | 577 | @ad<="20040401" and 'NPN' with 'bipolar junction transistor' and 'wells'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:22 |
| S58 | 3   | @ad<="20040401" and 'NPN' with 'bipolar junction transistor' and 'Nwell' and 'Pwell'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:28 |
| S59 | 1   | "20030137342".PN.  | US-PGPUB  | OR | ON | 2005/06/15 08:24 |
| S60 | 1   | "20030117120".PN.  | US-PGPUB  | OR | ON | 2005/06/15 08:24 |
| S61 | 1   | "6570437".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 08:24 |

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|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S62 | 40 | @ad<="20040401" and 'NPN' with 'bipolar junction transistor' and 'isolation' with 'well' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:25 |
| S63 | 3  | @ad<="20040401" and 'NPN' same 'bipolar junction transistor' and 'Nwell' and 'Pwell'     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:47 |
| S64 | 1  | "5489541".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 08:35 |
| S65 | 1  | "5360750".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 08:36 |
| S66 | 1  | "5163178".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 08:37 |
| S67 | 1  | "5066602".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 08:37 |
| S68 | 1  | "4966858".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 08:39 |
| S69 | 0  | @ad<="20040401" and 'NPN' same 'lateral bipolar junction' and 'Nwell' and 'Pwell'        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:48 |
| S70 | 0  | @ad<="20040401" and 'lateral bipolar junction' and 'Nwell' and 'Pwell'                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 08:48 |
| S71 | 97 | @ad<="20040401" and 'lateral bipolar junction'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 12:28 |
| S72 | 45 | @ad<="20040401" and 'lateral' with 'bipolar junction' and 'ESD'                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/15 13:46 |
| S73 | 1  | "5637900".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:00 |
| S74 | 1  | "5473169".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:01 |
| S75 | 1  | "5637900".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:44 |
| S76 | 1  | "5473169".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:45 |
| S77 | 1  | "5455436".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:46 |
| S78 | 1  | "5432368".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:48 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S79 | 1   | "5430595".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:49 |
| S80 | 1   | "5330922".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:53 |
| S81 | 1   | "5132235".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/06/15 09:53 |
| S82 | 132 | @ad<="20040401" and ('nnp' or 'pnp') same 'bipolar junction' and 'ESD' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 08:43 |
| S83 | 14  | @ad<="20040401" and 'vertical' with 'bipolar junction' and 'ESD'       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/06/15 11:46 |
| S84 | 46  | 'Ker Ming-Dou' and 'latch up'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 13:29 |
| S85 | 1   | "6043539".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:09 |
| S86 | 1   | "6011681".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:09 |
| S87 | 1   | "6002568".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:11 |
| S88 | 1   | "5959820".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:12 |
| S89 | 1   | "5945713".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:13 |
| S90 | 1   | "5917336".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:14 |
| S91 | 1   | "5400202".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:21 |
| S92 | 1   | "5359211".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:22 |
| S93 | 1   | "5289334".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:22 |
| S94 | 1   | "20020163009".PN.  | US-PGPUB  | OR | ON | 2005/10/11 08:41 |
| S95 | 1   | "20020153570".PN.  | US-PGPUB  | OR | ON | 2005/10/11 08:41 |
| S96 | 138 | @ad<="20040401" and ('nnp' or 'pnp') same 'bipolar junction' and 'ESD' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 09:25 |
| S97 | 1   | "20030214773".PN.  | US-PGPUB  | OR | ON | 2005/10/11 08:43 |
| S98 | 1   | "20030147190".PN.  | US-PGPUB  | OR | ON | 2005/10/11 08:44 |
| S99 | 1   | "6552886".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 08:48 |



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|          |     |  |   |    |     |                  |
|----------|-----|--|---|----|-----|------------------|
| S10<br>0 | 1   | "6400540".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 08:48 |
| S10<br>1 | 1   | "6246079".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 08:54 |
| S10<br>2 | 1   | "5786617".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 09:00 |
| S10<br>3 | 68  | @ad<="20040401" and 'bipolar<br>junction transistor' and 'pad' and<br>'latch-up'                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 09:33 |
| S10<br>4 | 206 | @ad<="20040401" and 'bipolar<br>junction transistor' and 'latch-up'                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 09:26 |
| S10<br>5 | 62  | @ad<="20040401" and 'bipolar<br>junction transistor' and 'n well' and<br>'p well' and 'latch-up' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 09:34 |
| S10<br>6 | 67  | @ad<="20040401" and 'bipolar<br>junction transistor' and 'n well' and<br>'p well' and 'latch up' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 09:50 |
| S10<br>7 | 15  | @ad<="20040401" and 'bjt' and<br>'first well' and 'second well' and<br>'third well'              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 14:19 |
| S10<br>8 | 2   | ("6765771").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 12:00 |
| S10<br>9 | 4   | ((("5744841") or ("6072219")).PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 12:12 |
| S11<br>0 | 2   | ("6747294").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 12:12 |
| S11<br>1 | 1   | "6555884".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 12:21 |
| S11<br>2 | 1   | "6255710".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 12:21 |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S11<br>3 | 1   | "6229185".PN.   | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 12:22 |
| S11<br>4 | 1   | "6157070".PN.   | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 12:22 |
| S11<br>5 | 1   | "5994754".PN.   | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 12:22 |
| S11<br>6 | 1   | "5679587".PN.   | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 12:22 |
| S11<br>8 | 1   | "5485027".PN.   | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 12:23 |
| S11<br>9 | 1   | "5413944".PN.   | USPAT;<br>USOCR   | OR | ON  | 2005/10/11 12:27 |
| S12<br>0 | 297 | @ad<="20040401" and 'lateral'<br>same 'bipolar junction transistor'                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 12:28 |
| S12<br>1 | 36  | @ad<="20040401" and 'lateral'<br>same 'bipolar junction transistor'<br>and 'latch up' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 13:10 |
| S12<br>2 | 4   | ((("5744842") or ("6072219"))).PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 13:17 |
| S12<br>3 | 2   | ("5786617").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 13:23 |
| S13<br>0 | 9   | 'Dae Kim'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 13:25 |
| S13<br>1 | 82  | 'Ker Ming-Dou' and 'ESD' and<br>'lateral'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/10/11 14:10 |
| S13<br>3 | 2   | ("6858901").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/11 14:11 |
| S13<br>4 | 1   | "20020033507".PN.   | US-PGPUB  | OR | ON  | 2005/10/11 14:17 |

## EAST Search History

|          |     |  |   |    |    |                  |
|----------|-----|--|---|----|----|------------------|
| S13<br>5 | 153 | @ad<="20040401" and 'bipolar' and 'first well' and 'second well' and 'third well'                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 14:28 |
| S13<br>6 | 89  | @ad<="20040401" and 'latch up' and 'first well' and 'second well' and 'third well'               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 14:19 |
| S13<br>7 | 38  | @ad<="20040401" and 'bipolar' and 'latch up' and 'first well' and 'second well' and 'third well' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 14:19 |
| S13<br>8 | 1   | "6570226".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 14:24 |
| S13<br>9 | 1   | "6281527".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 14:24 |
| S14<br>0 | 1   | "5905679".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 14:25 |
| S14<br>1 | 1   | "5747837".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 14:25 |
| S14<br>3 | 80  | @ad<="20040401" and 'lateral PNP transistor' and 'latch up'                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/11 14:29 |
| S14<br>4 | 1   | "6025621".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/10/11 14:50 |
| S14<br>5 | 923 | @ad<="20040401" and (257/370).<br>ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/10 10:22 |
| S14<br>6 | 701 | @ad<="20040401" and (257/378).<br>ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/10 10:22 |
| S14<br>7 | 280 | @ad<="20040401" and (257/361).<br>ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/15 13:19 |
| S14<br>8 | 126 | @ad<="20040401" and (257/497).<br>ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/10 10:22 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S14<br>9 | 1615 | @ad<="20040401" and (257/355).<br>ccls.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/02/10 10:23 |
| S15<br>0 | 648  | @ad<="20040401" and (257/356).<br>ccls.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/02/10 10:24 |
| S15<br>1 | 467  | @ad<="20040401" and (257/362).<br>ccls.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/02/10 10:25 |
| S15<br>2 | 514  | @ad<="20040401" and (257/173).<br>ccls.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/05/15 13:32 |
| S15<br>4 | 200  | @ad<="20040401" and lateral with<br>"BJT"                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/05/15 13:33 |
| S15<br>5 | 1637 | @ad<="20040401" and (257/355).<br>ccls.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/05/15 13:20 |
| S15<br>6 | 90   | @ad<="20040401" and "SCR" and<br>"ESD" and "BJT"                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/05/15 13:23 |
| S15<br>7 | 7    | @ad<="20040401" and "BJT" and<br>"cut-off mode"                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/05/15 13:25 |
| S15<br>8 | 198  | @ad<="20040401" and "BJT" and<br>("cut-off mode" or "latch up") | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/05/15 13:25 |
| S15<br>9 | 2    | ("5576557").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/15 13:32 |

## EAST Search History

|          |     |  |   |    |    |                  |
|----------|-----|--|---|----|----|------------------|
| S16<br>0 | 178 | @ad<="20040401" and "ESD" and lateral with "SCR"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/15 13:34 |
| S16<br>1 | 112 | @ad<="20040401" and "ESD" and "lateral SCR"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/15 13:34 |
| S16<br>2 | 47  | @ad<="20040401" and "lateral" with "bipolar junction" and "ESD"                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/15 13:46 |
| S16<br>3 | 36  | @ad<="20040401" and "first well" and "second well" and "third well" and "pad" and "latch-up" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/15 14:22 |
| S16<br>4 | 1   | "5400202".PN.  | USPAT;<br>USOCR   | OR | ON | 2006/05/15 14:02 |
| S16<br>5 | 627 | @ad<="20040401" and "p-substrate" with "p-well"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/15 14:22 |